

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/593,793A

DATE: 11/27/2000

TIME: 22:54:27

Input Set : A:\Pto.amc

Output Set: N:\CRF3\11272000\I593793A.raw

3 <110> APPLICANT: Xu, Jiangchun  
 4 Dillon, Davin C.  
 5 Mitcham, Jennifer L.  
 6 Harlocker, Susan L.  
 7 Jiang, Yuqui  
 8 Reed, Steven G.  
 9 Kalos, Michael D.  
 10 Fanger, Gary R.  
 11 Retter, Marc W.  
 12 Stolk, John A.  
 13 Day, Craig H.  
 14 Vedvick, Thomas S.  
 15 Carter, Darrick  
 16 Li, Samuel  
 17 Wang, Aijun  
 18 Skeiky, Yasir A.W.  
 19 Helper, William  
 21 <120> TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY AND  
 22 DIAGNOSIS OF PROSTATE CANCER  
 24 <130> FILE REFERENCE: 210121.42715C15  
 C--> 26 <140> CURRENT APPLICATION NUMBER: US/09/593,793A  
 C--> 27 <141> CURRENT FILING DATE: 2000-06-13  
 29 <160> NUMBER OF SEQ ID NOS: 814  
 31 <170> SOFTWARE: FastSEQ for Windows Version 3.0  
 33 <210> SEQ ID NO: 1  
 34 <211> LENGTH: 814  
 35 <212> TYPE: DNA  
 36 <213> ORGANISM: Homo sapien  
 38 <220> FEATURE:  
 39 <221> NAME/KEY: misc\_feature  
 40 <222> LOCATION: (1)...(814)  
 41 <223> OTHER INFORMATION: n = A,T,C or G  
 43 <400> SEQUENCE: 1  
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 46 ccaggggggc cagtccctct ccttacttca tccccatccc atgccaaagg aagaccctcc 180  
 47 ctccctggct cacagccttc tctaggcttc ccagtgcctc caggacagag tgggttatgt 240  
 48 ttccagctcc atccctgtct tgagtgtctg gtgcgttggt cctccagctt ctgctcagtg 300  
 49 ctccatggac agtgtccagc acatgtcact ctccactctc tcagtgtgga tccactagtt 360  
 50 cttagagcggc cgcaccgcgc gtggagctcc agcttttgtt ccttttagtg aggggttaatt 420  
 51 gcgcgcttgg cgtaatcatg gtcataactg tttcctgtgt gaaattgtta tccgctcaca 480  
 52 attccacaca acatacgagc cgggaagcata aagtgtaaag cctgggggtgc ctaatgagtg 540  
 W--> 53 anctaactca cattaattgc gttgcgtcga ctgnccgctt tccagtcngg aaaactgtcg 600  
 W--> 54 tgccagctgc attaatgaat cggccaacgc ncggggaaaa gcgggttgcg ttttgggggc 660  
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 W--> 56 actcctcaaa ggnggtatta cggttatccn naaatcnggg gatacccnngg aaaaaanttt 780  
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Input Set : A:\Pto.amc

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59 <210> SEQ ID NO: 2
60 <211> LENGTH: 816
61 <212> TYPE: DNA
62 <213> ORGANISM: Homo sapien
63 <220> FEATURE:
64 <221> NAME/KEY: misc_feature
65 <222> LOCATION: (1)...(816)
66 <223> OTHER INFORMATION: n = A,T,C or G
67 <400> SEQUENCE: 2
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71 ttcatggctg ttggagcaat agaaccocag ttctacyagc tgctgateca aggacttga 120
72 ctaaaagtctg atgaacttcc caatcagatg agcatggatg attggccaga aatgaagaag 180
73 aagtttgacg atgtatttgc aaagaagacg aaggcagagt ggtgtcaaat ctttgacggc 240
74 acagatgcct gtgtgactcc ggtttctgact tttagaggag ttgttcatca tgatcacaac 300
75 aaggaaacggg gctcgtttat caccagtgaq gagcaggaq tgagcccccq cctgcacct 360
76 ctgctgttaa acacccacgc cctcccttct ttcaaaaggq atccactagt tctagaagcy 420
77 gccgccaccg cgggtggagt ccagcttttg ttccctttag tgagggttaa ttgcgcgctt 480
78 ggcgtaatca tgggtcatagc tgtttcctgt gtgaaattgt tatccgctca caattcccc 540
W--> 79 aacatacgag ccggaacata aagtgttaag cctggggtgc ctaatgantg agctaaactc 600
W--> 80 cattaattgc gttgcgctca ctgcccgctt tccagtcggg aaaactgtcg tgccactgcn 660
W--> 81 ttantgaatc ngccaccccc cgggaaaagg cgggttgctt ttgggcctct tccgctttcc 720
W--> 82 tcgctcattg atccctngcnc ccgggtcttcg gctgcggnga acggttccact cctcaaggc 780
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86 <211> LENGTH: 773
87 <212> TYPE: DNA
88 <213> ORGANISM: Homo sapien
89 <220> FEATURE:
90 <221> NAME/KEY: misc_feature
91 <222> LOCATION: (1)...(773)
92 <223> OTHER INFORMATION: n = A,T,C or G
93 <400> SEQUENCE: 3
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97 tccgtctcct cactggtgat aaacgagccc cgttccttgt tgtgatcatg atgaacaacc 120
98 tcctcaaaag tcagaaaccg agtcacacag gcactctgtc cgtcaaaagt ttgacaccac 180
99 tctgccttcg tcttctttgc aaatacatct gcaaaactct tcttcatttc tggccaatca 240
W--> 100 tccatgctca tctgattggg aagttcatca gacttttagc canntccttt gatcagcagc 300
101 tctagaactc ggggttctat tgcctcaaca gccatgaatt ccccatctgc tgtcctgtaa 360
102 gtcgtataga aagggtgctc accatccaac atgttctgtc ctgagggggg ggcccggtaa 420
W--> 103 ccaattcgcc ctatantgag tcgtattacg cgcgctcact ggccgtcgtt ttacaacgtc 480
104 gtgactggga aaacccctgg cgttaccaac ttaatcgctc tgcagcacat cccctttctg 540
W--> 105 ccagctgggc gtaatancca aaaggcccgcc accgatcgcc ctccaacag ttgcgcacct 600
W--> 106 gaatgggnaa atgggacccc cctgttaacc cgcattnaac ccccgcnagg tttngttgtt 660
W--> 107 acccccacnt nnaccgctta cactttgcca gcgccttanc gcccgctccc tttncccttt 720
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110 <210> SEQ ID NO: 4
111 <211> LENGTH: 828
112 <212> TYPE: DNA
113 <213> ORGANISM: Homo sapien

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Input Set : A:\Pto.amc

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115 &lt;220&gt; FEATURE:

116 &lt;221&gt; NAME/KEY: misc\_feature

117 &lt;222&gt; LOCATION: (1)...(828)

118 &lt;223&gt; OTHER INFORMATION: n = A,T,C or G

120 &lt;400&gt; SEQUENCE: 4

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122 aatgggcaga cacaggtgta tgccaatggt tctgaaatgg gtataatttc gtcctctcct 120
123 tcggaacact ggcctgtctct gaagacttct cgtcagttt cagtggaggac acacacaaag 180
124 acgtgggtga ccatgtttgt tgtggggtgc agagatggga ggggtggggc ccacctgga 240
125 agagtggaca gtgacacaag gtggacactc tctacagatc actgaggata agctggagcc 300
W--> 126 acaatgcatg aggcacacac acagcaagga tgacnctgta aacatagccc acgtgtcct 360
W--> 127 gngggcactg ggaagcctan atnaggcctg gagcanaaag aaggggagga tccactagtt 420
W--> 128 ctanageggc cgccaccgcy gtgganctcc ancttttgtt ccttttagtg agggttaatt 480
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W--> 130 attccacaca acatacganc cggaacata aantgtaaac ctggggtgcc taatgantga 600
W--> 131 ctaactcaca ttaattgcgt tgcgctcact gccgcgtttc caatcnggaa acctgtcttg 660
W--> 132 ccncttgcct tnatgaatcn gccaaccccc ggggaaaagc gtttgctgtt tgggcgctct 720
W--> 133 tccgcttctc cnetcantta ntccctnenc tcggtcattc cggtcgengc aaaccggttc 780
W--> 134 accnctcca aagggggtat tccggtttcc cnaatccgg gganance 828

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136 &lt;210&gt; SEQ ID NO: 5

137 &lt;211&gt; LENGTH: 834

138 &lt;212&gt; TYPE: DNA

139 &lt;213&gt; ORGANISM: Homo sapien

141 &lt;220&gt; FEATURE:

142 &lt;221&gt; NAME/KEY: misc\_feature

143 &lt;222&gt; LOCATION: (1)...(834)

144 &lt;223&gt; OTHER INFORMATION: n = A,T,C or G

146 &lt;400&gt; SEQUENCE: 5

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147 tttttttttt tttttactga tagatggaat ttattaagct tttcacatgt gatagcacat 60
148 agttttaatt gcatccaaag tactaacaaa aactctagca atcaagaatg gcagcatggt 120
149 attttataac aatcaacacc tgttgctttt. aaaatttggt tttcataaga taatttatac 180
150 tgaagtaaat ctatgccatgc ttttaaaaaa tgcttttagt cactccaaagc ttggcaytta 240
151 acatttggca taaacaataa taaaacaatc acaatttaat aaataacaaa tacaacattg 300
152 taggccataa tcataatacag tataaggaaa aggtggtagt gttgagtaag cagttattag 360
153 aatagaatac cttggcctct atgcaaatat gtctagacac tttgattcac tcagccctga 420
154 cattcagttt tcaaaagtagg agacagggtc tacagtatca ttttacagtt tccaacacat 480
155 tgaaaacaag tagaaaatga tgagttgatt tttattaatg cattacatcc tcaagagtta 540
156 tcaccaaccc ctcagttata aaaaatttcc aagttatatt agcatataaa cttggtgtgc 600
157 ttatttttaa ttatgtctaa atggattaag tgaagacaac aatggctccc taatgtgatt 660
W--> 158 gatattggtc atttttacca gcttctaaat ctnaactttc aggtctttga actggaacat 720
W--> 159 tgnatnacag tgttccanag ttncaccta ctggaacatt acagtgtgct tgattcaaaa 780
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163 &lt;211&gt; LENGTH: 818

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167 &lt;220&gt; FEATURE:

168 &lt;221&gt; NAME/KEY: misc\_feature

169 &lt;222&gt; LOCATION: (1)...(818)

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170 &lt;223&gt; OTHER INFORMATION: n = A,T,C or G

172 &lt;400&gt; SEQUENCE: 6

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174	aaccacatct	acaaaatgcc	agtatcaggc	ggcggtctcg	aagccaaagt	gatgtttgga	120
175	tgtaaaagtga	aataattagtt	ggcggatgaa	gcagatagtg	aggaaagtty	agccaataat	180
176	gacgtgaagt	ccgtggaagc	ctgtggctac	aaaaaatgtt	gagccgtaga	tgccgtcggg	240
177	aatggtgaag	ggagactcga	agtactctga	ggcttctagg	agggtaaaat	agagacccag	300
178	taaaattgtg	ataagcagtg	cttgaattat	ttggtttcgg	ttgttttcta	ttagactatg	360
179	gtgagctcag	gtgattgata	ctcctgatgc	gagtaatacg	gatgtgttta	ggagtgggac	420
180	ttctaggggg	tttaagcggg	tgatgcctgt	tggggggccg	tgccctccta	gttggggggg	480
181	aggggctagg	ctggagtggg	aaaaggtcca	gaaaaatcct	gcgaagaaaa	aaacttctga	540
182	ggtaataaat	aggattatcc	cgtatcgaa	gcctttttgg	acaggtgggtg	tgtgttgccc	600
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W--> 186	ggaatncccc	ccccggacna	ntgnatccct	attcttaa			818

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189 &lt;211&gt; LENGTH: 817

190 &lt;212&gt; TYPE: DNA

191 &lt;213&gt; ORGANISM: Homo sapien

193 &lt;220&gt; FEATURE:

194 &lt;221&gt; NAME/KEY: misc\_feature

195 &lt;222&gt; LOCATION: (1)...(817)

196 &lt;223&gt; OTHER INFORMATION: n = A,T,C or G

198 &lt;400&gt; SEQUENCE: 7

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201	ggtttgctcc	acagatttca	gagcattgac	cgtagtatac	ccccggtcgt	gtagcgggtga	180
202	aagtggtttg	gtttagacgt	ccgggaattg	catctgtttt	taagcctaata	gtggggacag	240
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204	gtactactcg	attgtcaacg	tcaaggagtc	gcaggtcgcc	tggttctagg	aataatgggg	360
205	gaagtatgta	ggaattgaag	attaatccgc	cgtagtcggt	gttctcctag	gttcaatacc	420
206	attggtggcc	aattgatttg	atggttaagg	gaggyatcgt	tgaactcgtc	tgttatgtaa	480
W--> 207	aggatnccct	ngggatggga	aggcnatnaa	ggactangga	tnaatggcgg	gcangatatt	540
W--> 208	tcaaacngtc	tctanttcct	gaaacgtctg	aaatgttaat	aanaattaan	tttngttatt	600
W--> 209	gaatnttnng	gaaaagggct	tacaggacta	gaaaccaa	angaaaanta	atnntaangg	660
W--> 210	cnttatctn	aaaggtnata	accnctecta	tnatccacc	caatngnatt	ccccacnenn	720
W--> 211	acnattggat	nccccanttc	canaaaanggc	cnccccccgg	tgnannccnc	ctttgttccc	780
W--> 212	cttnantgan	gggtatttnc	ccctngcntt	atcance			817

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215 &lt;211&gt; LENGTH: 799

216 &lt;212&gt; TYPE: DNA

217 &lt;213&gt; ORGANISM: Homo sapien

219 &lt;220&gt; FEATURE:

220 &lt;221&gt; NAME/KEY: misc\_feature

221 &lt;222&gt; LOCATION: (1)...(799)

222 &lt;223&gt; OTHER INFORMATION: n = A,T,C or G

224 &lt;400&gt; SEQUENCE: 8

225	catttccggg	tttactttct	aaggaaagcc	yagcggaagc	tgctaacgtg	ggaatcgggtg	60
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Input Set : A:\Pto.amc  
 Output Set: N:\CRF3\11272000\I593793A.raw

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226 cataaggaga actttctgct ggcacgcgct agggacaagc gggagagcga ctccgagcgt 120
227 ctgaagcgca cgtccacagaa ggtggacttg gcactgaaac agctgggaca catccgcgag 180
228 tacgaacagc gcctgaaagt gctggagcgg gaggtccagc agtgtagccg cgtccctgggg 240
W--> 229 tgggtggccg angcctganc cgtctgcctt tgcctgcccc angtgggccg ccacccccctg 300
W--> 230 acctgcctgg gtccaaacac tgagccctgc tggcggactt caagganaac ccccacangg 360
W--> 231 ggattttgct cctanantaa ggctcatctg ggctcggccc cccccacctg gttggccttg 420
W--> 232 tctttgagtg gagcccccag tccatctggg ccaactgtcng gaccaccttt ngggagtgtt 480
W--> 233 ctcccttaca cccannatg cccggctcct cccggaaaacc antcccnacc tgnaaaggat 540
W--> 234 caagnccctn atccactnnt nctanaaacc gccnccnccg cngtggaacc cnccttntgt 600
W--> 235 tccttttctt tnagggttaa tnnccgcttg gccttnccan ngctcctnnc ntittccnnt 660
W--> 236 gttnaaattg ttangcnccc nccnntcccn cnnnnnnnan cccgaccenn annttnnnnn 720
W--> 237 nccctggggg nccnncngat tgaccnncnc nccctntant tgctntnggg ncnntgccc 780
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241 <211> LENGTH: 801
242 <212> TYPE: DNA
243 <213> ORGANISM: Homo sapien
245 <220> FEATURE:
246 <221> NAME/KEY: misc_feature
247 <222> LOCATION: (1)...(801)
248 <223> OTHER INFORMATION: n = A,T,C or G
250 <400> SEQUENCE: 9
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253 caaggacaag gccaccaggt gcgggggccc aagccacat gatccttact ctatgagcaa 180
W--> 254 aatccccctgt gggggcttct ccttgaagtc cggcancagg gctcagtctt tggaccang 240
W--> 255 caggtcatgg ggttgtnnc caactggggg ccncaacgca aaanggcnaa gggcctcngn 300
W--> 256 caccatccc angacggcg tacactnctg gacctccnc tccaccactt tcactgcgtg 360
W--> 257 ttentacccg cgnatntgtc ccanctgttt cngtgcnaa tccancttct nggacgtgcg 420
W--> 258 ctacatacgc cgggantcnc nctcccgctt tgctccctac cagtnccan caacaaattt 480
W--> 259 cncntantg caccnattcc cacttttnc agntttccnc nncngcttc cttntaaaag 540
W--> 260 ggttgancce cggaaaatnc cccaaagggg gggggccngg tacccaactn cccctnata 600
W--> 261 gctgaantcc ccatnaccnn gntcnatgg anccntcct ttaannacn ttctnaactt 660
W--> 262 gggaaanacc ctgcnccntn ccccnntaa tccncccttg cnangnnct ccccnntcc 720
W--> 263 nccnnntng gcntntnann cnaaaaagc cnnnnancaa tctcctnnn cctcanttgc 780
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266 <210> SEQ ID NO: 10
267 <211> LENGTH: 789
268 <212> TYPE: DNA
269 <213> ORGANISM: Homo sapien
271 <220> FEATURE:
272 <221> NAME/KEY: misc_feature
273 <222> LOCATION: (1)...(789)
274 <223> OTHER INFORMATION: n = A,T,C or G
276 <400> SEQUENCE: 10
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278 acagtgtggc cgtggtgaca gcttcagccg cctcaccgg gttcaccttc tcagccctgc 120
279 agatccctgc ctacacactg gctccctct accaccggga gaagcagtg ttccctgcca 180
280 aataccgagg ggacactgga ggtgctagca gtgaggacag cctgatgacc agcttccctgc 240

```

PTI

**Please Note:**

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

## VERIFICATION SUMMARY

DATE: 11/27/2000

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TIME: 22:54:28

Input Set : A:\Pto.amc

Output Set: N:\CRF3\11272000\I593793A.raw

L:26 M:270 C: Current Application Number differs, Wrong Format  
L:27 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:53 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1  
L:54 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1  
L:55 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1  
L:56 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1  
L:57 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1  
L:79 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2  
L:80 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2  
L:81 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2  
L:82 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2  
L:83 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2  
L:100 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:103 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:105 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:106 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:107 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:108 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:126 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:127 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:128 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:129 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
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L:160 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5  
L:184 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
L:185 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
L:186 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
L:203 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7  
L:207 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7  
L:208 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7  
L:209 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7  
L:210 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7  
L:211 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7  
L:212 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7  
L:229 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8  
L:230 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8  
L:231 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8  
L:232 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8  
L:233 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8  
L:234 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8  
L:235 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8  
L:236 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8

## VERIFICATION SUMMARY

DATE: 11/27/2000

PATENT APPLICATION: US/09/593,793A

TIME: 22:54:28

Input Set : A:\Pto.amc

Output Set: N:\CRF3\11272000\I593793A.raw

L:237 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8  
L:238 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8  
L:252 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9  
L:254 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9

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